

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:

Hillsborough County
Solid Waste Management Department
P.O. Box 1110
Tampa, Florida 33601

Air Permit No. 0570261-008-AC
Hillsborough County Resource Recovery Facility
Carbon Injection Averaging

Authorized Representative:

Barry M. Boldissar, Director

Enclosed is Final Air Permit No. 0570261-008-AC, which authorizes the implementation of an *hourly averaging method* to calculate carbon mass feed rate levels at the facility. The equipment is operated at the Hillsborough County Resource Recovery Facility, 350 N. Falkenburg Road, Tampa, in Hillsborough County, Florida. This permit is issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S. by filing a Notice of Appeal pursuant to Rule 9.110 of the Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000); and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this order is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the "Final Permit") was sent by electronic mail (with received receipt requested) before the close of business on 3/26/07 to the person(s) listed:

Barry M. Boldissar, Hillsborough County boldissarb@hillsboroughcounty.org

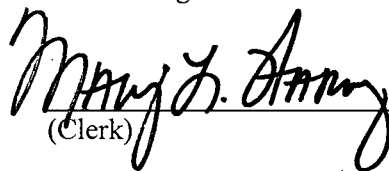
Mara Nasca, Southwest District Office mara.nasca@dep.state.fl.us

Jason M. Gorrie, P.E., CDM GorrieJM@CDM.com

Gregg Worley, EPA Region 4 worley.gregg@epa.gov

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


(Clerk)

3/26/07
(Date)



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

PERMITTEE

Hillsborough County Solid Waste Management Department
P.O. Box 1110
Tampa, Florida 33601

Authorized Representative:

Barry M. Boldissar, Director

Air Permit No. 0570261-008-AC
Hillsborough County Resource
Recovery Facility
Facility ID No. 0570261
SIC No. 4953
Carbon Injection Averaging
Permit Expires: May 31, 2007

PROJECT AND LOCATION

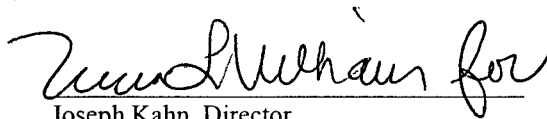
This permit authorizes the implementation of an *hourly averaging method* to calculate carbon mass feed rate levels at the facility. The equipment is installed at the Hillsborough County Resource Recovery Facility, which is located in Hillsborough County at 350 N. Falkenburg Road, Tampa, Florida.

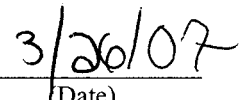
STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.) and Title 40, Parts 60 and 63 of the Code of Federal Regulations (CFR). The permittee is authorized to operate the equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

CONTENTS

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Emissions Units Specific Conditions
- Section 4. Appendices


Joseph Kahn, Director
Division of Air Resource Management


(Date)

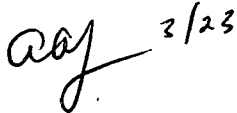
MEMORANDUM

To: Joseph Kahn
From: Trina L. Vielhauer
Subject: Hillsborough County Resource Recovery Facility
Air Construction Permit No. 0570261-008-AC
Date: March 23, 2007

Attached is the final air construction permit for the subject facility. This permit authorizes the implementation of an *hourly averaging method* to calculate carbon mass feed rate levels at the facility. The equipment is installed at the Hillsborough County Resource Recovery Facility, which is located in Hillsborough County at 350 N. Falkenburg Road, Tampa, Florida. It also establishes this change as an applicable Title V Air Operation Permit condition.

The Department distributed an "Intent to Issue Permit" package on October 27, 2006. The applicant published the "Public Notice of Intent to Issue" in the Tampa Tribune on March 1, 2007. No petitions for administrative hearings or extensions of time to petition for an administrative hearing were filed. No comments were received from the Applicant, EPA Region 4, or the public at large on the Intent to Issue the Air Construction Permit package.

I recommend your signature.

 3/23

FINAL DETERMINATION

PERMITTEE

Hillsborough County Solid Waste Management Department
P.O. Box 1110
Tampa, Florida 33601

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation, Permitting South Section
2600 Blair Stone Road, MS 5505
Tallahassee, Florida 32399-2400

PROJECT

Air Permit No. 0570261-008-AC

Hillsborough County Resource Recovery Facility

This permit authorizes the implementation of an *hourly averaging method* to calculate carbon mass feed rate levels at the facility. The equipment is installed at the Hillsborough County Resource Recovery Facility, which is located in Hillsborough County at 350 N. Falkenburg Road, Tampa, Florida. It also establishes this change as an applicable Title V Air Operation Permit condition.

NOTICE AND PUBLICATION

The Department distributed an "Intent to Issue Permit" package on October 27, 2006. The applicant published the "Public Notice of Intent to Issue" in the Tampa Tribune on March 1, 2007. No petitions for administrative hearings or extensions of time to petition for an administrative hearing were filed. No comments were received from the Applicant, EPA Region 4, or the public at large on the Intent to Issue the Air Construction Permit package.

CONCLUSION

The final action of the Department is to issue the permit with an adjusted expiration date.

SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

The Hillsborough County Solid Waste Management Department operates the Hillsborough County Resource Recovery Facility, which is a Refuse System (SIC No. 4953). The plant currently consists of three municipal waste combustors having a nominal design rate capacity of 400 tons of municipal solid waste (MSW) per day, 150 million British thermal units (MMBtu) per hour, and 94,270 pounds steam per hour, with MSW having a heating value of 4,500 Btu per pound. The facility has a design net steam energy of 1158 Btu per pound. Natural gas fired auxiliary burners and combustion control systems, with continuous monitoring devices for combustion and process parameters and sulfur dioxide, nitrogen oxides and carbon monoxide emissions, are installed to improve combustion efficiency and control. The air pollution control equipment consists of a spray dryer absorber, a fabric filter, an activated carbon injection system, and a selective non-catalytic reduction system. The facility also has an ash building and handling system, two lime storage silos, and an activated carbon storage silo.

This permit authorizes the implementation of an *hourly averaging method* to calculate carbon mass feed rate levels at the facility.

E.U. ID No.	Emission Unit Descriptions
001	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit 1
002	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit 2
003	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit 3

REGULATORY CLASSIFICATION

Title III: The facility IS a potential major source of hazardous air pollutants (HAPs).

Title IV: The facility DOES NOT OPERATE existing units subject to the Acid Rain provisions of the Clean Air Act (CAA).

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

PSD: The facility IS a PSD-major facility in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility OPERATES units subject to New Source Performance Standards in 40 CFR 60.

NEHSAP: The facility DOES NOT OPERATE units subject to National Emissions Standards for HAPs in 40 CFR 63.

RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and additional information received to make it complete; the draft permit package including the Department's Technical Evaluation and Preliminary Determination; publication and comments; and the Department's Final Determination.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The Permitting Authority for this project is the Bureau of Air Regulation in the Division of Air Resource Management of the Department. The mailing address for the Bureau of Air Regulation is 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Southwest District Office. The mailing address and phone number of the Southwest District Office is: 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926, 813/632-7600.
3. Appendices: The following Appendix is attached as part of this permit: Appendix GC (General Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: No emissions unit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
7. Title V Permit: This permit authorizes specific modifications and/or new construction on the affected emissions units as well as initial operation to determine compliance with conditions of this permit. A Title V operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after completing the required work and commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Bureau of Air Regulation with copies to each Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNITS SPECIFIC CONDITIONS

The following existing emissions units are affected by this permit:

E.U. ID No.	Emission Unit Descriptions
001	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit 1
002	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit 2
003	150 MMBtu/hr (nominal) Municipal Waste Combustor & Auxiliary Burners - Unit 3

Based on this permitting action, these emissions units are subject to the following additional specific condition:

1. Activated Carbon Injection. The owner or operator of an affected facility where activated carbon injection is used to comply with the mercury emission limit, or the dioxin/furan emission limits, or the dioxin/furan emission level specified in 40 CFR 60.58b(g)(5)(iii), shall follow the procedures specified in paragraphs (1) through (3).
 - (1) During the performance tests for dioxins/furans and mercury, as applicable, the owner or operator shall estimate an average carbon mass feed rate based on carbon injection system operating parameters such as the screw feeder speed, hopper volume, hopper refill frequency, or other parameters appropriate to the feed system being employed, as specified in paragraphs (i) and (ii).
 - (i) An average carbon mass feed rate in kilograms per hour or pounds per hour shall be estimated during the initial performance test for mercury emissions and each subsequent performance test for mercury emissions.
 - (ii) An average carbon mass feed rate in kilograms per hour or pounds per hour shall be estimated during the initial performance test for dioxin/furan emissions and each subsequent performance test for dioxin/furan emissions.
 - (2) During operation of the affected facility, the carbon injection system operating parameter(s) that are the primary indicator(s) of the carbon mass feed rate (e.g., screw feeder setting) shall be averaged over a block 8-hour period, and the 8-hour block average must equal or exceed the level(s) documented during the performance tests specified under paragraphs (1)(i) and (1)(ii).
 - (3) The owner or operator of an affected facility shall estimate the total carbon usage of the plant (kilograms or pounds) for each calendar quarter by two independent methods, according to the procedures in paragraphs (i) and (ii).
 - (i) The weight of carbon delivered to the plant.
 - (ii) Estimate the average carbon mass feed rate in kilograms per hour or pounds per hour for each hour of operation for each affected facility based on the parameters specified under paragraph (1), and sum the results for all affected facilities at the plant for the total number of hours of operation during the calendar quarter.

[40 CFR 60.38b and 40 CFR 60.58b, as amended on May 10, 2006.]

SECTION 4. APPENDIX GC – GENERAL CONDITIONS

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
 - a. Have access to and copy and records that must be kept under the conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of non-compliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

SECTION 4. APPENDIX GC – GENERAL CONDITIONS

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
 - a. Determination of Best Available Control Technology (not applicable to project);
 - b. Determination of Prevention of Significant Deterioration (not applicable to project); and
 - c. Compliance with New Source Performance Standards.
14. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - 1) The date, exact place, and time of sampling or measurements;
 - 2) The person responsible for performing the sampling or measurements;
 - 3) The dates analyses were performed;
 - 4) The person responsible for performing the analyses;
 - 5) The analytical techniques or methods used; and
 - 6) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Adams, Patty

From: Harvey, Mary
Sent: Tuesday, March 27, 2007 9:34 AM
To: Adams, Patty
Subject: FW: Hillsborough County Resource Recovery Facility #0570261-008-AC-FINAL

From: Zhang-Torres
Sent: Tuesday, March 27, 2007 9:02 AM
To: Harvey, Mary
Subject: RE: Hillsborough County Resource Recovery Facility #0570261-008-AC-FINAL

We got it. Thanks.

Cindy

From: Harvey, Mary
Sent: Monday, March 26, 2007 4:15 PM
To: 'boldissarb@hillsboroughcounty.org'; Zhang-Torres; 'GorrieJM@CDM.com'; 'worley.gregg@epa.gov'
Cc: Cascio, Tom; Adams, Patty; Gibson, Victoria
Subject: Hillsborough County Resource Recovery Facility #0570261-008-AC-FINAL

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: <http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

9/5/2007

Adams, Patty

From: Harvey, Mary
Sent: Monday, March 26, 2007 4:41 PM
To: Adams, Patty
Subject: FW: Hillsborough County Resource Recovery Facility #0570261-008-AC-FINAL

From: Gorrie, Jason [<mailto:GorrieJM@CDM.com>]
Sent: Monday, March 26, 2007 4:37 PM
To: Harvey, Mary
Subject: Read: Hillsborough County Resource Recovery Facility #0570261-008-AC-FINAL

Your message

To: GorrieJM@CDM.com
Subject:

was read on 3/26/2007 4:37 PM.

Adams, Patty

From: Harvey, Mary
Sent: Monday, March 26, 2007 4:15 PM
To: 'boldissarb@hillsboroughcounty.org'; Zhang-Torres; 'GorrieJM@CDM.com'; 'worley.gregg@epa.gov'
Cc: Cascio, Tom; Adams, Patty; Gibson, Victoria
Subject: Hillsborough County Resource Recovery Facility #0570261-008-AC-FINAL
Attachments: 0570261.008.AC.F_pdf.zip

Dear Sir/Madam:

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Thank you,

DEP, Bureau of Air Regulation